

Brian C Sales

List of Publications by Year in descending order

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250
papers

21,911
citations

12303

69
h-index

9553

142
g-index

253
all docs

253
docs citations

253
times ranked

14249
citing authors

#	ARTICLE	IF	CITATIONS
1	Filled Skutterudite Antimonides: A New Class of Thermoelectric Materials. Science, 1996, 272, 1325-1328.	6.0	1,892
2	Superconductivity at 22 K in Co-Doped BaFe_2As_2 . Physical Review Letters, 2008, 101, 117004.	2.9	980
3	Filled skutterudite antimonides: Electron crystals and phonon glasses. Physical Review B, 1997, 56, 15081-15089.	1.1	787
4	Thermoelectric Materials: New Approaches to an Old Problem. Physics Today, 1997, 50, 42-47.	0.3	773
5	Coupling of Crystal Structure and Magnetism in the Layered, Ferromagnetic Insulator CrI_3 . Chemistry of Materials, 2015, 27, 612-620.	3.2	729
6	Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ on Biaxially Textured Nickel (001): An Approach to Superconducting Tapes with High Critical Current Density. Science, 1996, 274, 755-757.	6.0	678
7	Giant anharmonic phonon scattering in PbTe. Nature Materials, 2011, 10, 614-619.	13.3	561
8	Localized vibrational modes in metallic solids. Nature, 1998, 395, 876-878.	13.7	532
9	Two-band superconductivity in $\text{LaFeAsO}_{0.89}\text{F}_{0.11}$ at very high magnetic fields. Nature, 2008, 453, 903-905.	13.7	490
10	Influence of chemical disorder on energy dissipation and defect evolution in concentrated solid solution alloys. Nature Communications, 2015, 6, 8736.	5.8	477
11	THERMOELECTRIC MATERIALS: Smaller Is Cooler. Science, 2002, 295, 1248-1249.	6.0	424
12	Characterization of Thin-Film Rechargeable Lithium Batteries with Lithium Cobalt Oxide Cathodes. Journal of the Electrochemical Society, 1996, 143, 3203-3213.	1.3	394
13	Susceptibility of Interconfiguration-Fluctuation Compounds. Physical Review Letters, 1975, 35, 1240-1244.	2.9	345
14	Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Applied Physics Letters, 2009, 94, .	1.5	337
15	Effects of Nematic Fluctuations on the Elastic Properties of Iron Arsenide Superconductors. Physical Review Letters, 2010, 105, 157003.	2.9	318
16	Superconductivity in $\text{LaFeAsO}_{1-x}\text{F}_x$. Physical Review B, 2008, 78, .	2.1	305
17	Thermoelectric properties of CoSb_3 and related alloys. Journal of Applied Physics, 1995, 78, 1013-1018.	1.1	303
18	Thermoelectric properties of thallium-filled skutterudites. Physical Review B, 2000, 61, 2475-2481.	1.1	287

#	ARTICLE	IF	CITATIONS
19	Crystal growth and magnetic structure of MnBi . Physical Review Materials, 2019, 3, .	10.9	242
20	Two-dimensional resonant magnetic excitation in $\text{BaFe}_{1.84}\text{Co}$. Physical Review Letters, 2009, 102, 107005.	2.9	237
21	Magnetic behavior and spin-lattice coupling in cleavable van der Waals layered CrCl_3 crystals. Physical Review Materials, 2017, 1, .	10.9	216
22	Dome-shaped magnetic order competing with high-temperature superconductivity at high pressures in FeSe. Nature Communications, 2016, 7, 12146.	5.8	210
23	Two-channel model for ultralow thermal conductivity of crystalline Tl_3VSe_4 . Science, 2018, 360, 1455-1458.	6.0	206
24	Demagnetization due to interconfiguration fluctuations in the RE-Cu ₂ Si ₂ compounds. Journal of Low Temperature Physics, 1976, 23, 449-467.	0.6	204
25	Magnetic Excitations in the $S=1/2$ Alternating Chain Compound $(\text{VO})_2\text{P}_2\text{O}_7$. Physical Review Letters, 1997, 79, 745-748.	2.9	204
26	Lead-Iron Phosphate Glass: A Stable Storage Medium for High-Level Nuclear Waste. Science, 1984, 226, 45-48.	6.0	194
27	Strong spin-lattice coupling in CrSiTe_3 . APL Materials, 2015, 3, .	2.2	192
28	Enhanced current density and extended irreversibility in single-crystal $\text{Bi}_2\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_8$ via linear defects from heavy ion irradiation. Applied Physics Letters, 1992, 60, 2306-2308.	1.5	180
29	Einstein Oscillators in Thallium Filled Antimony Skutterudites. Physical Review Letters, 2003, 90, 135505.	2.9	179
30	Tailoring the physical properties of Ni-based single-phase equiatomic alloys by modifying the chemical complexity. Scientific Reports, 2016, 6, 20159.	1.6	166
31	Superconductivity and hole doping in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{Ba}_2\text{Cu}_3\text{O}_7$ thin films. Physical Review Letters, 1991, 66, 1537-1540.	2.9	162
32	Glass-like phonon scattering from a spontaneous nanostructure in AgSbTe_2 . Nature Nanotechnology, 2013, 8, 445-451.	15.6	161
33	Spin Susceptibility, Phase Diagram, and Quantum Criticality in the Electron-Doped High T_c Superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Journal of the Physical Society of Japan, 2009, 78, 013711.	0.7	159
34	Evolution of spin excitations into the superconducting state in $\text{FeTe}_{1-x}\text{Se}_x$. Nature Physics, 2010, 6, 182-186.	6.5	151
35	ARPES on $\text{Na}_{0.6}\text{CoO}_2$: Fermi Surface and Unusual Band Dispersion. Physical Review Letters, 2004, 92, 246403.	2.9	143
36	Magnetic ordering in the high-temperature superconductor $\text{GdBa}_2\text{Cu}_3\text{O}_7$. Physical Review B, 1988, 37, 2341-2344.	1.1	141

#	ARTICLE	IF	CITATIONS
37	Charge Order, Dynamics, and Magnetostructural Transition in Multiferroic LuFe_2O_4 . Physical Review Letters, 2008, 101, 227602.		141
38	Fermi Surface Evolution and Luttinger Theorem in Na_xCoO_2 : A Systematic Photoemission Study. Physical Review Letters, 2005, 95, 146401.	2.9	140
39	Influence of oxygen deficiency on the superconductive properties of grain-aligned $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. Physical Review B, 1992, 45, 12534-12547.	1.1	133
40	Magnetic, transport, and structural properties of Fe_3Si . Physical Review B, 1994, 50, 8207-8213.	1.1	133
41	Three-Dimensional Magnetic Correlations in Multiferroic LuFe_2O_4 . Physical Review Letters, 2008, 100, 107601.		130
42	Evolution of structural, magnetic, and transport properties in MnBi . Physical Review B, 2019, 100, .		130
43	Phonon Self-Energy and Origin of Anomalous Neutron Scattering Spectra in SnTe and PbTe Thermoelectrics. Physical Review Letters, 2014, 112, 175501.	2.9	125
44	Charge Order in LuFe_2O_4 : Antiferroelectric Ground State and Coupling to Magnetism. Physical Review Letters, 2008, 101, 227601.	2.9	120
45	^{51}F NMR investigation of the iron pnictide superconductor $\text{LaFeAsO}_{0.89}\text{F}_{0.11}$. Physical Review B, 2008, 78, .	1.1	120
46	Lattice dynamics and reduced thermal conductivity of filled skutterudites. Physical Review B, 2000, 61, R9209-R9212.	1.1	116
47	Magnetic phase transition in single crystals of the chiral helimagnet Cr_2NbS_6 . Physical Review B, 2013, 87, .		116
48	Pulsed laser deposition of Bi_2Te_3 -based thermoelectric thin films. Journal of Applied Physics, 2003, 94, 3907-3918.	1.1	110
49	Superconductivity in SrCuO_2 - BaCuO_2 Superlattices: Formation of Artificially Layered Superconducting Materials. Science, 1994, 265, 2074-2077.	6.0	107
50	Evidence for Strong Itinerant Spin Fluctuations in the Normal State of $\text{CeFeAsO}_{0.89}\text{F}_{0.11}$ Iron-Oxypnictide Superconductors. Physical Review Letters, 2008, 101, 267001.	2.9	106
51	Thermoelectric properties of chemically substituted skutterudites $\text{YbCo}_4\text{Sn}_x\text{Sb}_{12-x}$. Journal of Applied Physics, 2000, 88, 1948-1951.	1.1	103
52	Absence of superconductivity in hole-doped BaFe_2As_2 crystals. Physical Review B, 2009, 79, .	1.1	101
53	^{59}Co and ^{75}As NMR Investigation of Electron-Doped High T_c Superconductor $\text{BaFe}_{1.8}\text{Co}_{0.2}\text{As}_2$ ($T_c = 22$ K). Journal of the Physical Society of Japan, 2008, 77, 103705.	0.7	99
54	Phonon softening and metallization of a narrow-gap semiconductor by thermal disorder. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4725-4730.	3.3	96

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55	Heavy fermion behaviour of the cerium-filled skutterudites and. Journal of Physics Condensed Matter, 1998, 10, 6973-6985.	0.7	95
56	Observation of Bulk Superconductivity in $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$ and $\text{Na}_x\text{CoO}_2 \cdot y\text{D}_2\text{O}$ Powder and Single Crystals. Physical Review Letters, 2003, 91, 217001.	2.9	93
57	Evidence for three-dimensional Fermi-surface topology of the layered electron-doped iron superconductor $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$		

#	ARTICLE	IF	CITATIONS
73	Additive manufacturing of anisotropic hybrid NdFeB-SmFeN nylon composite bonded magnets. Journal of Magnetism and Magnetic Materials, 2018, 467, 8-13. Nanoscale chemical phase separation in FeTe	1.0	68
74	Optical, Structural, and Chemical Characteristics of Lead-Indium Phosphate and Lead-Scandium Phosphate Glasses. Journal of the American Ceramic Society, 1987, 70, 615-621.	1.1	66
75	Phonon Density of States of LaFeAsO	1.9	65
76	Thermoelectric properties of Co-, Ir-, and Os-doped FeSi alloys: Evidence for strong electron-phonon coupling. Physical Review B, 2011, 83, .	2.9	65
77	High- T_c Superconductivity in FeSe at High Pressure: Dominant Hole Carriers and Enhanced Spin Fluctuations. Physical Review Letters, 2017, 118, 147004.	1.1	64
78	Unusual Relationship between Magnetism and Superconductivity in $\text{FeTe}_{0.5}\text{Se}_{0.5}$	2.9	64
79	Physical Review Letters, 2010, 104, 187002.	2.9	62
80	Ferromagnetism of Fe_3Sn and Alloys. Scientific Reports, 2014, 4, 7024.	1.6	62
81	Four-Well Tunneling States and Elastic Response of Clathrates. Physical Review Letters, 2004, 92, 185502.	2.9	59
82	Evidence for electromagnetic granularity in the polycrystalline iron-based superconductor $\text{LaO}_{0.89}\text{F}_{0.11}\text{FeAs}$. Applied Physics Letters, 2008, 92, 252501.	1.5	59
83	Doping-dependent specific heat study of the superconducting gap in BaFe_2As_2	1.1	58
84	Physical Review B, 2010, 81, .	1.1	58
84	The origin of incipient ferroelectricity in lead telluride. Nature Communications, 2016, 7, 12291.	5.8	58
85	Chapter 1 Use of atomic displacement parameters in thermoelectric materials research. Semiconductors and Semimetals, 2001, 70, 1-36.	0.4	56
86	Long-range antiferromagnetic order of the Cu in oxygen-deficient $\text{RBa}_2\text{Cu}_3\text{O}_{6+x}$. Physical Review B, 1988, 37, 9844-9847.	1.1	52
87	Flat bands in the CoSn -type compounds. Physical Review B, 2020, 102, .	1.1	52
88	Growth mechanism of superconducting MgB_2 films prepared by various methods. Journal of Materials Research, 2001, 16, 2759-2762.	1.2	50
89	Quantum Critical Behavior in a Concentrated Ternary Solid Solution. Scientific Reports, 2016, 6, 26179.	1.6	50
90	Site Mixing for Engineering Magnetic Topological Insulators. Physical Review X, 2021, 11, .	2.8	50

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91	In-Plane Thermal Conductivity of Nd ₂ CuO ₄ : Evidence for Magnon Heat Transport. Physical Review Letters, 2003, 91, 146601.	2.9	49
92	Critical Overview of Recent Approaches to Improved Thermoelectric Materials. International Journal of Applied Ceramic Technology, 2007, 4, 291-296.	1.1	49
93	Symmetry-lowering lattice distortion at the spin reorientation in MnBi single crystals. Physical Review B, 2014, 90, .	1.1	49
94	Electronic, magnetic, and thermodynamic properties of the kagome layer compound FeSn. Physical Review Materials, 2019, 3, .	0.9	49
95	Superconducting magnesium diboride films on Si with T _c ≈ 4.24 K grown via vacuum annealing from stoichiometric precursors. Applied Physics Letters, 2001, 79, 2603-2605.	1.5	48
96	Pressure effects on the electron-doped high-T _c superconductor BaFe _{2-x} CoxAs ₂ . Journal of Physics Condensed Matter, 2008, 20, 472201.	0.7	48
97	High pressure floating zone growth and structural properties of ferrimagnetic quantum paraelectric BaFe ₁₂ O ₁₉ . APL Materials, 2015, 3, 062512.	2.2	48
98	Fabrication of highly dense isotropic Nd-Fe-B nylon bonded magnets via extrusion-based additive manufacturing. Additive Manufacturing, 2018, 21, 495-500.	1.7	48
99	Goldstone-Mode Phonon Dynamics in the Pyrochlore Cd ₂ Re ₂ O ₇ . Physical Review Letters, 2005, 95, 125503.	2.9	47
100	Oxidation of Nickel in the Vicinity of Its Curie Temperature. Physical Review Letters, 1977, 39, 1636-1639.	2.9	45
101	Magnetic ordering in GdBa ₂ Cu ₃ O _{6.14} . Physical Review B, 1988, 38, 12008-12010.	1.1	45
102	Phase transition and superconductivity of SrFe ₂ As ₂ under high pressure. Journal of Physics Condensed Matter, 2011, 23, 122201.	0.7	45
103	Antiferromagnetism in the van der Waals layered spin-lozenge semiconductor CrTe_3 . Physical Review B, 2017, 95, .	1.1	44
104	Transport and structural properties of Pr _{1-x} CaxBa ₂ Cu ₃ O _{7-δ} thin films grown by pulsed-laser deposition. Physical Review B, 1994, 49, 4182-4188.	1.1	43
105	Transport, thermal, and magnetic properties of the narrow-gap semiconductor CrSb ₂ . Physical Review B, 2012, 86, .	1.1	43
106	Magnetic structural change of Sr ₂ IrO ₄ upon Mn doping. Physical Review B, 2012, 86, . Magnetic anisotropy in single-crystal high-entropy perovskite oxide $\text{La}_{0.5}\text{Sr}_{0.5}\text{Co}_{1-x}\text{Ni}_x\text{O}_{3-\delta}$	1.1	43
107			

#	ARTICLE	IF	CITATIONS
109	Unusual transport and large diamagnetism in the intermetallic semiconductor RuAl ₂ . Physical Review B, 1998, 58, 3712-3716. Itinerant electrons, local moments, and magnetic correlations in the pnictide superconductors CeFeAsO	1.1	41
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127	Zr flux growth and characterization of Ce-substituted BaFe_2As_2 single crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 434, 1-9.	1.1	36
128	Ba_2As_2 single crystals (T=Fe, Co, Ni) and superconductivity upon Co-doping. <i>Physica C: Superconductivity and Its Applications</i> , 2009, 469, 350-354.	0.6	35
129	Independent superconductivity and paramagnetism in $\text{HoBa}_2\text{Cu}_3\text{O}_z$. <i>Physical Review B</i> , 1987, 36, 836-839.	1.1	34
130	High-resolution measurements of the thermal expansion of superconducting Co-doped BaFe_2As_2 . <i>Physical Review B</i> , 2009, 79, .	1.1	34
131	Magnetism and cluster glass dynamics in geometrically frustrated LuFe_2O_4 . <i>Journal of Applied Physics</i> , 2009, 105, 07E308.	1.1	34
132	Single-crystal neutron-diffraction investigation of the magnetic ordering of the high-temperature superconductor $\text{ErBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review B</i> , 1989, 40, 2624-2626.	1.1	33
133	Alternating current losses in biaxially textured $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films deposited on Ni tapes. <i>Applied Physics Letters</i> , 1997, 71, 2029-2031.	1.5	33
134	Evolution of competing magnetic order in the J_1 - J_2 - J_3 state of Sr_2CuO_2 . <i>Physical Review B</i> , 2015, 92, .	1.1	33
135	Extended magnetic exchange interactions in the high-temperature ferromagnet MnBi . <i>Applied Physics Letters</i> , 2016, 108, .	1.5	32
136	Optical studies of single-crystal $\text{Nd}_2\text{xCe}_x\text{CuO}_4$. <i>Physical Review B</i> , 1991, 43, 5389-5396.	1.1	30
137	Fluctuation effects on the physical properties of $\text{Cd}_2\text{Re}_2\text{O}_7$ near 200 K. <i>Journal of Physics Condensed Matter</i> , 2002, 14, L117-L123.	0.7	30
138	Incommensurate Charge Order Phase in CeO_2 to Geometrical Frustration. <i>Physical Review Letters</i> , 2007, 99, 256402.	0.6	30
139	Boron arsenide phonon dispersion from inelastic x-ray scattering: Potential for ultrahigh thermal conductivity. <i>Physical Review B</i> , 2016, 94, .	1.1	29
140	Magnetic ordering in the high-temperature superconductor $\text{ErBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review B</i> , 1989, 39, 4291-4294.	1.1	28
141	Formation of collapsed tetragonal phase in EuCoAs_2 under high pressure. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 425701.	0.7	28
142	Magnetism and Disorder Effects on Muon Spin Rotation Measurements of the Magnetic Penetration Depth in Iron-Arsenic Superconductors. <i>Physical Review Letters</i> , 2011, 106, 127002.	2.9	28
143	Pressure dependence of the electrical resistivity of the filled skutterudites $\text{LnFe}_4\text{Sb}_{12}$ (Ln = Ce, Yb). <i>Journal of Physics Condensed Matter</i> , 2000, 12, 1261-1267.	0.7	27
144	Electronic structure of CeO_2		

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145	<p>spin-orbit insulating state close to the cubic limit in $\text{Ca}_4\text{IrO}_{10}$. <i>Physical Review B</i>, 2014, 89, .</p> <p>Search for pressure-induced superconductivity in CeFeAsO and CeFePO iron pnictides. <i>Physical Review B</i>, 2011, 83, .</p>	1.1	27
146	Search for pressure-induced superconductivity in CeFeAsO and CeFePO iron pnictides. <i>Physical Review B</i> , 2011, 83, .	1.1	26
147	Correlations among Thermal Processing, Superconducting Properties, and Microstructure in $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1057.	0.8	26
148	Structural inequivalence of the ion-damage-produced amorphous state and the glass state in lead pyrophosphate. <i>Physical Review Letters</i> , 1989, 62, 1138-1141.	2.9	25
149	Magnetism out of antisite disorder in the $\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ compound. <i>Physical Review B</i> , 2017, 96, .	1.1	25
150	Pulsed laser deposition of thin superconducting films of $\text{HoBa}_2\text{Cu}_3\text{O}_{7-x}$ and $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Journal of Materials Research</i> , 1988, 3, 1169-1179.	1.2	24
151	Dielectric-Constant-Enhanced Hall Mobility in Complex Oxides. <i>Advanced Materials</i> , 2012, 24, 3965-3969.	11.1	24
152	Direct Probe of Interplay between Local Structure and Superconductivity in $\text{FeTe}_{0.55}\text{Se}_{0.45}$. <i>ACS Nano</i> , 2013, 7, 2634-2641.	7.3	24
153	Direct visualization of anionic electrons in an electrider reveals inhomogeneities. <i>Science Advances</i> , 2021, 7, .	4.7	24
154	Fast Neutron Damage Studies of $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1185.	0.8	24
155	Magnetic properties of oxygen-reduced, rare-earth based $\text{R}_1\text{Ba}_2\text{Cu}_3\text{O}_{7-x}$ compounds with $\text{R}=\text{Gd}, \text{Dy}, \text{and Ho}$. <i>Physical Review B</i> , 1988, 37, 9395-9400.	1.1	23
156	Complex itinerant ferromagnetism in noncentrosymmetric $\text{Cr}_{11}\text{Ge}_{19}$. <i>Physical Review B</i> , 2012, 85, .	1.1	23
157	Sublimation Rate of Cobalt near Its Curie Temperature. <i>Physical Review Letters</i> , 1980, 44, 586-590.	2.9	22
158	Magnetoelastic coupling and spin excitations in the spin-gap system $(\text{VO})_2\text{P}_2\text{O}_7$: A Raman scattering study. <i>Physical Review B</i> , 2000, 61, 6126-6132.	1.1	22
159	Epitaxial structure and transport in LaTiO_{3+x} films on (001) SrTiO_3 . <i>Physica Status Solidi A</i> , 2003, 200, 346-351.	1.7	22
160	Pressure effects on the transport coefficients of BaFe_2As_2 . <i>Physical Review B</i> , 2011, 84, .	1.1	22
161	Initial oxidation kinetics near the Curie temperature of nickel. <i>Physical Review B</i> , 1978, 18, 486-491.	1.1	21
162	Structural alterations in the amorphous-to-crystalline transformation of lead pyrophosphate. <i>Physical Review Letters</i> , 1987, 59, 1718-1721.	2.9	21

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163	Deposition and Characterization of Li ₂ O-SiO ₂ -P ₂ O ₅ Thin Films. Journal of the American Ceramic Society, 1993, 76, 929-943.	1.9	21
164	Unusual phase transitions and magnetoelastic coupling in TlFe _{1.6} Se ₂ single crystals. Physical Review B, 2011, 83, .	1.1	21
165	Quasi-One-Dimensional Magnons in an Intermetallic Marcasite. Physical Review Letters, 2012, 108, 167202.	2.9	21
166	Large magnon-induced anomalous Nernst conductivity in single-crystal MnBi. Joule, 2021, 5, 3057-3067.	11.7	21
167	Local Observation of the Site Occupancy of Mn in a MnFePSi Compound. Physical Review Letters, 2015, 114, 106101.	2.9	20
168	Evidence for entanglement at high temperatures in an engineered molecular magnet. Europhysics Letters, 2012, 100, 50001.	0.7	19
169	Variation of physical properties in the nominal Sr ₄ V ₂ O ₆ Fe ₂ As ₂ . Physica C: Superconductivity and Its Applications, 2011, 471, 143-149.	0.6	18
170	Local crystallography analysis for atomically resolved scanning tunneling microscopy images. Nanotechnology, 2013, 24, 415707.	1.3	18
171	Magnetic and structural transitions in $\text{La}_{1-x}\text{Pr}_x\text{Co}_2\text{Si}_2$ crystals. Physical Review B, 2015, 91, .	1.1	18
172	Quantum critical behavior in the asymptotic limit of high disorder in the medium entropy alloy NiCoCr _{0.8} . Npj Quantum Materials, 2017, 2, .	1.8	18
173	Magnetic excitation spectrum of the square lattice $S=1/2$ Heisenberg antiferromagnet K ₂ V ₃ O ₈ . Physical Review B, 2006, 74, .	1.1	17
174	Ba ₂ CoO ₄ : Crystal growth, structure refinement, and physical properties. Physical Review B, 2006, 73, .	1.1	17
175	Tuning the flat bands of the kagome metal CoSn with Fe, In, or Ni doping. Physical Review Materials, 2021, 5, .	0.9	17
176	Magnetism in BaCoS ₂ . Journal of Applied Physics, 1997, 81, 4620-4622.	1.1	16
177	NMR Measurements of Intrinsic Spin Susceptibility in LaFeAsO _{0.9} F _{0.1} . Journal of the Physical Society of Japan, 2008, 77, 47-53.	0.7	16
178	Temperature dependent electronic transport in concentrated solid solutions of the $\text{M}_3\text{M}'\text{d}_4\text{M}''\text{O}_{10}$ M' -transition metals Ni, Fe, Co and Cr from first principles. Physical Review B, 2018, 98, .	1.1	16
179	Surface terminations and layer-resolved tunneling spectroscopy of the 122 iron pnictide superconductors. Physical Review B, 2019, 99, .	1.1	16
180	Crossover from spin waves to diffusive spin excitations in underdoped $\text{Ba}_{1-x}\text{Fe}_x\text{M}_2\text{As}_2$. Physical Review B, 2014, 89, .	1.1	16

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181	Quenching rattling modes in skutterudites with pressure. Physical Review B, 2015, 91, .	1.1	15
182	Spin-lattice coupling mediated multiferroicity in D_2O . Physical Review B, 2016, 94, .	1.1	15
183	Fragile singlet ground-state magnetism in the pyrochlore osmates Ir_2O_7 . Physical Review B, 2012, 85, .	10.7843	14
184	Damped Dirac magnon in the metallic kagome antiferromagnet FeSn. Physical Review B, 2022, 105, .	1.1	15
185	Enhanced far-infrared absorption in CePd ₃ and YbCuSi ₂ . Experiment. Physical Review B, 1984, 29, 609-621.	1.1	14
186	Structural and physical properties of layered oxy-arsenides LnRuAsO (Ln=La, Nd, Sm, Gd). Journal of Solid State Chemistry, 2012, 191, 71-75.	1.4	14
187	Research Update: Spatially resolved mapping of electronic structure on atomic level by multivariate statistical analysis. APL Materials, 2014, 2, .	2.2	14
188	Reorientation of antiferromagnetism in cobalt doped FeSn. Physical Review B, 2019, 100, .	1.1	14
189	Metastable A15 phase Nb ₃ Si synthesized by high dynamic pressure. High Pressure Research, 1989, 1, 267-289.	0.4	13
190	Flux growth and physical properties of Mo ₃ Sb ₇ single crystals. Physical Review B, 2013, 87, .	1.1	13
191	Orbital Occupancy and Charge Doping in Iron-Based Superconductors. Advanced Materials, 2014, 26, 6193-6198.	11.1	13
192	Effect of Oxygen Interstitial Ordering on Multiple Order Parameters in Rare Earth Ferrite. Physical Review Letters, 2019, 123, 247601.	2.9	13
193	Electronic structure of thallium filled skutterudites studied by x-ray absorption and Mössbauer spectroscopy. Journal of Applied Physics, 2002, 92, 7236-7241.	1.1	12
194	A combined temperature-dependent electron and single-crystal X-ray diffraction study of the fresnoite compound Rb ₂ V ₄ V ₂ O ₈ . Journal of Solid State Chemistry, 2004, 177, 3316-3323.	1.4	12
195	Coupled structural and magnetic antiphase domain walls on BaFe ₂ As ₂ . Physical Review B, 2012, 86, .	1.1	12
196	Optical Structure near 20 meV in Valence-Fluctuation Compounds. Physical Review Letters, 1981, 47, 1018-1022.	2.9	11
197	Electronic damage in the ion-beam amorphization of Pb ₂ P ₂ O ₇ . Physical Review B, 1992, 46, 3215-3218.	1.1	11
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